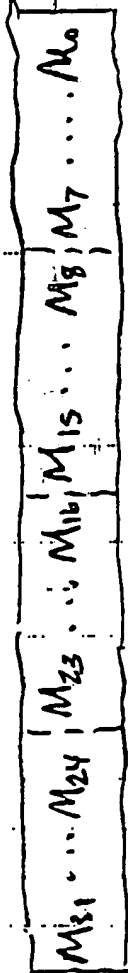


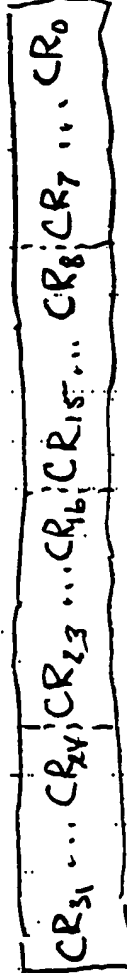
END000027US1

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SHEET 1 OF 4FILTER BLOCK COMPARE (32-BIT)

MASK



FILTER

NOT MATCH  
INDICATORCOMPARE  
RESULT

DATA

ONLY COMPARE BITS WHERE  $M_i = 1$ 

previous  
have  
negative

IF  $NM_i = 0$ ,  $CR_i = \text{TRUE}(i)$  WHEN  $D_i = F_i$ ,  $CR_i = CR_0 \bullet CR_1 \dots CR_{i-1}$   
 IF  $NM_i = 1$ ,  $CR_i = \text{TRUE}(i)$  WHEN  $D_i \neq F_i$ ,  $CR_i = CR_0 + CR_1 + \dots + CR_{i-1}$

$CR_i = \text{True}$   
 $\neq M_i = 0$   
 implied 1  
 implied 0  
 implied 1  
 off OK

FIGURE 1

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END000027US1

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SHEET 2 OF 4

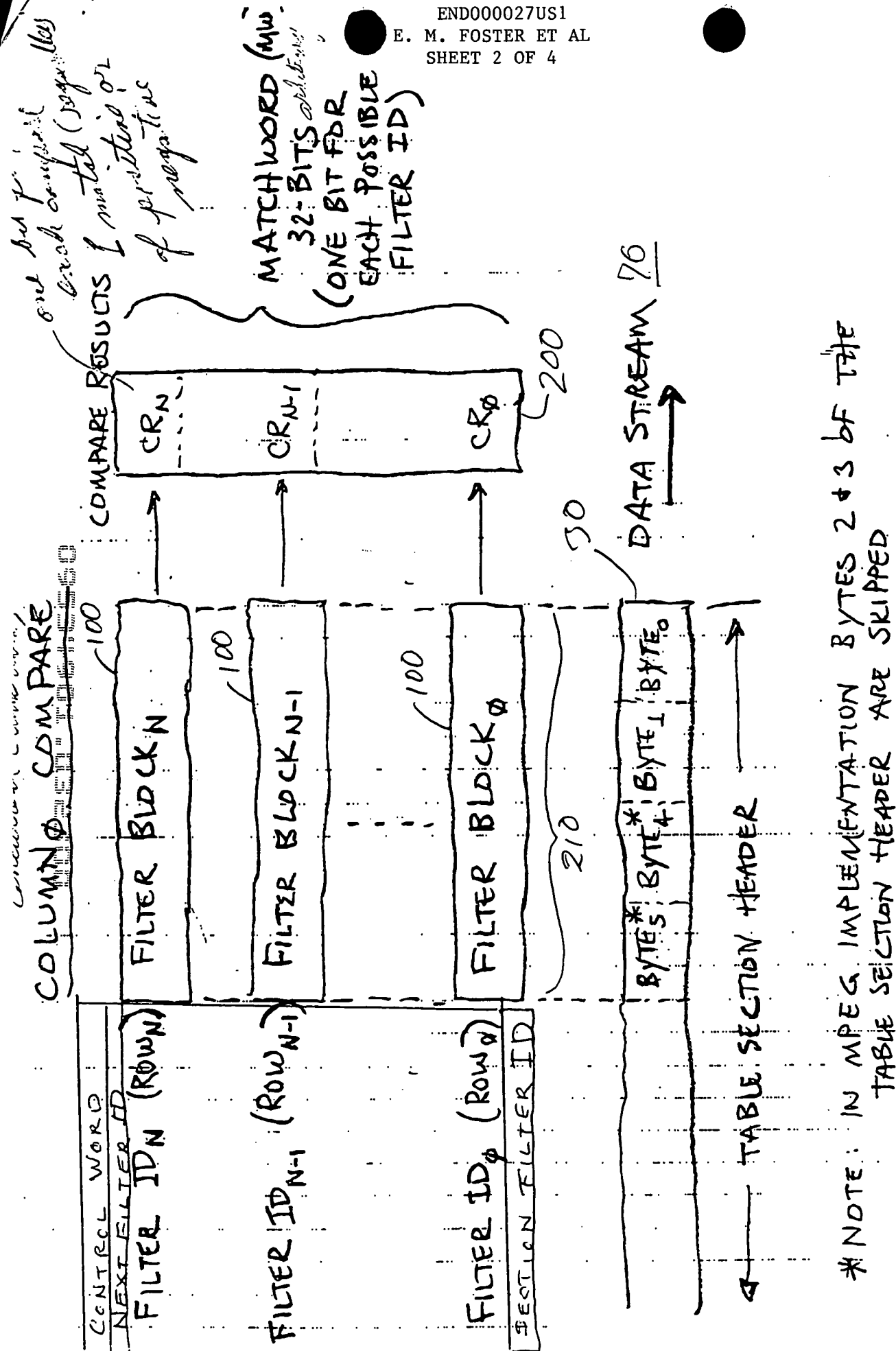


FIGURE 2

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END000027US1

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SHEET 3 OF 4

## COLUMN 1 COMPARE

FILTER ID<sub>N</sub> (ROW<sub>N</sub>)FILTER ID<sub>N-1</sub> (ROW<sub>N-1</sub>)FILTER ID<sub>0</sub> (ROW<sub>0</sub>)

NOTE: M MAY EQUAL N.

IF # FILTER BLOCKS IN COLUMN 0  
EQUALS # FILTER BLOCKS IN COLUMN 1FILTER BLOCK<sub>N+M</sub>FILTER BLOCK<sub>N+M-1</sub>FILTER BLOCK<sub>N+1</sub>

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IF POSITIVE FILTER,

$$MW(MW = MW_0 \cdot MW_1) \dots$$

IF NEGATIVE FILTER,

$$MW = MW_0 + MW_1 + \dots$$

THIS IS NEW!

BYTE <sub>0</sub>	BYTE <sub>1</sub>	BYTE <sub>2</sub>	BYTE <sub>3</sub>	BYTE <sub>4</sub>	BYTE <sub>5</sub>	BYTE <sub>6</sub>	BYTE <sub>7</sub>	BYTE <sub>8</sub>	BYTE <sub>9</sub>
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TABLE SECTION HEADER

DATA  
STREAM

FIGURE 3

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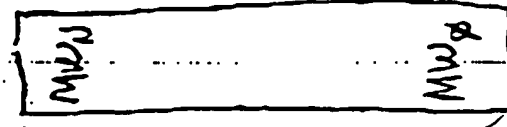
END0000027

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SHEET 4 OF 4

if all 1's & 0's & false  
if all false & false  
if all 1's & 0's & false  
if all false & false

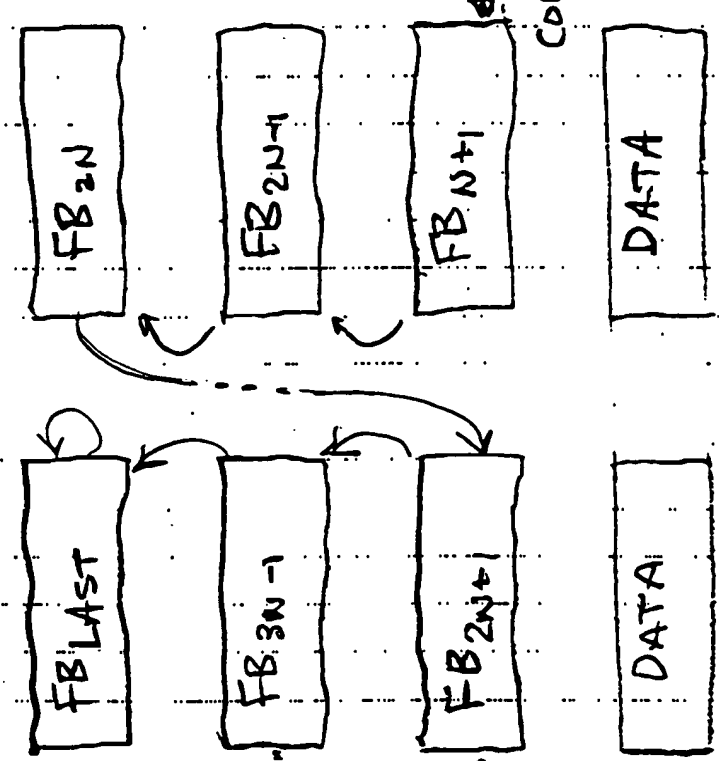
# OVERALL TABLE SECTION FILTER

MATCHWORD

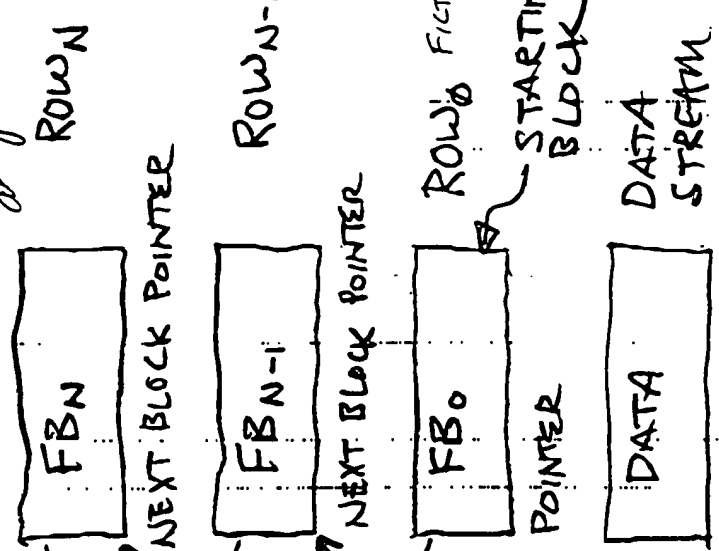


if any bit in the matchword is '1' → send to memory

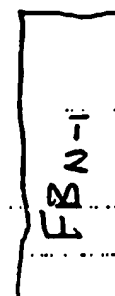
COLUMN<sub>1</sub>



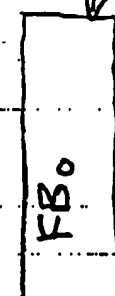
COLUMN<sub>0</sub>



ROW<sub>N-1</sub>



ROW<sub>0</sub> FILTER<sub>0</sub>



STARTING BLOCK

IF ANY BIT IN THE MATCHWORD IS '1' → SEND TO MEMORY

FIGURE 4

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